

Patent Claims

1. Pressure transmitter, comprising:
 - a pressure transmitter body having a top surface;
 - a dividing membrane attached to the pressure transmitter body to form a pressure chamber between the top surface and the dividing membrane;
 - a first pressure canal, which extends between a first opening in the pressure chamber and a common pressure transfer path, and a second pressure canal, which extends between a second opening in the pressure chamber and the common pressure transfer path, wherein the second pressure canal exhibits other hydraulic properties than the first pressure canal.
2. Pressure transmitter as claimed in claim 1, wherein the hydraulic properties include flow resistance and/or hydraulic capacitance of the first and second pressure canals, respectively.
3. Pressure transmitter as claimed in claim 1 or 2, wherein the common pressure transfer path includes a capillary line and/or a measuring cell chamber.
4. Pressure transmitter as claimed in one of the preceding claims, wherein the first canal and the second canal each includes an axial bore from the pressure chamber into the pressure transmitter body, and wherein the axial bores are connected over different paths into the common pressure transmission path.
5. Pressure transmitter as claimed in claim 4, wherein the axial bore of the

first canal is aligned with, and goes into, an axial bore of the common transmission path, and a resistance line runs between a laterally displaced, axial bore of the second canal and the axial bore of the common pressure transmission path.

6. Pressure transmitter as claimed in claim 6, wherein the resistance line has a smaller cross sectional area than the axial bores of the canals.
7. Pressure transmitter as claimed in claim 4, wherein resistance lines extend between a bore of the first canal and a bore of the common pressure transmission path and between the bore of the second canal and the bore of the common pressure transmission path, with the resistance lines having different lengths.
8. Pressure transmitter as claimed in claim 7, wherein the resistance lines include sections of an annular canal.
9. Pressure transmitter as claimed in one of the preceding claims, wherein the pressure transmitter body is composed of at least two portions which are fitted together, and wherein at least one canal has a section which is formed in a surface which becomes an internal surface after the fitting of the portions together.
10. Pressure transmitter as claimed in claim 8, wherein the section is a milled or turned depression.
11. Pressure transmitter as claimed in claim 8 or 9, wherein the section forms a resistance line.

12. Pressure sensor having a pressure measuring cell and a pressure transmitter as claimed in one of the preceding claims, wherein the pressure measuring cell is loadable by way of the common pressure transmission path with the pressure prevailing in the pressure chamber.
13. Pressure sensor as claimed in claim 11, further comprising a measuring cell chamber, which is formed in the pressure transmitter body, wherein the pressure measuring cell is arranged in the measuring cell chamber.